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*A Register of the Weather, Winds, Height of the Mercury in the Barometer, and  
the first Six Months of the Year One Thousand*

January. 8. 12. 9.

February. 7. 12. 9.

March 7. 12. 9

	Weather.	Winds.	Barom.	Rain.
1	Froft	W.S.W.	30. 07	
	Fair		07	
2	Mifling	S.	05	
			05	
3	Fog	S. by W.	07	
	Cloudy	S.	11	
			15	
4	Mifling	S.	18	0. 50
			18	
5	Calm		22	
	and	W. by S.	23	
	Cloudy	S. W.	26	
6	Fog		22	
	Warm	W.	0. 30	
	Mifling		14	
7	Cloudy	W. by N.	05	
		N. W.	05	
8	Cloudy	N. W.	29. 94	
		N. W.	90	
			82	
9	Sunfh.		51	
	Rain	S.	38	
	Snow		10. 1. 20.	
10	Froft	S. W.	02	
	Thaw	S.	2. 00.	
	Rain	S. by E.	28. 95	0. 70.
11	Cloudy		29. 46	
	Fair	N.		
			77	
12	sleet	N.	83	
13	Cloudy			
			91	
14	Snow	N. E.	96	
		N. E.	96	0. 20
		E. N. E.	68	
15	Froft	E. N. E.	94	
	Cloudy	E.	92	
			50	
16	Froft	E. N. E.	90	
	Cloudy	N.E.b.N.	91	
			94	
17	Froft	N.	30. 02	
	Cloudy	N. N. W.	02	
	Calm		04	
18	Froft	W.	09	
	Fair	S. W.	10	
			10	
19				

	Weather.	Winds.	Barom.	Rain.
	Froft			
			30. 06	
	Cloudy	N. E.	05	
	Froft		29. 95	
	Cloudy	N.E.by E.	75	
	Froft	E.	66	
	Calm	S.	50	
	Cloudy		30	
	Thaw	E. by S.	26	0. 02
	Sleet		20	
	Snow		20	
	Fair	E.	20	0. 03
	Froft		19	
	Froft	N. by E.	05	
	Cloudy		02	0. 03
	Snow	N.	28. 90	
	Snow	N.	86	
	Cloudy	W. by S.	83	0. 01
		S. by W.	83	
	Fairer		82	
	Sleet	S. W.	84	0. 01
			97	
	Thaw		29. 90	
	Froft	S. W.	18	
			25	
	Froft	S. W.	43	
	Fair	S.W.b.W.	52	
			61	
	Snow	S. by E.	65	
	Rain	S. E.	76	0. 27
	Fair	E.	94	
	Cloudy	E. by S.	30. 08	
	Froft		08	
	Thaw		00	
	Warm	S.	00	
	Cloudy		29. 95	
	Calm	S.	88	
	Rain	S. by W.	87	0. 40
		S.	80	
	Mift	N.	83	
	Warm	N. W.	85	0. 30
	Rain	E.	80	
	Cloudy	S. by E.	54	
	Fair	W. S. W.	62	0. 28
			60	
	Rain		50	
	Fair	S.	52	0. 20
	Rain		52	
	Cloudy	S. by E.	30	
	Bluffer.	S.	26	
	Fair		42	
	Rain	E. by S.	30	
	Fair	S.	38	0. 05

	Weathe	Winds.	Barom.	ain.
	Cloudy		30. 1	
	Fair	S. W.	20	
	Cloudy	W. S. W.	18	
	Warm	S. W.	19	
	Spring		14	
	Fog	S.	02	
	Fair	W.	29. 95	
		W. by S.	88	
	Mift		75	
	Rain	S. W.	69	0. 13
	Fair		65	
	Fair	S. W.	71	
	Colder	S.	70	
			46	
	Rain	S. W.	20	
	Bluffer.	W.	12	0. 85
	Fair		21	
	Fair	W.	48	
	Colder	W. by N.	57	
	Bluffer.	W.	60	
	Froft	N. W.	30. 01	
	Fair	N.	11	
	Froft	N. by E.	15	
	Fair	E.	15	
		W.	14	
	Fair	S. W.	08	
	Mift.	S. W.	29. 95	
		S.W.by S.	90	
	Fair	S. by W.	75	
	Mift	S.	65	
	Froft	W. by S.	64	
	Cloudy		60	
	Rain	N. W.	47	
	Fair	W. S. W.	35	
	Rain	W. by N.	21	
		N. by W.	18	
	Rain	N.	25	0. 32
		N.	35	
	Froft	N.	59	
	Fair	W.	60	0. 02
	Cloudy	W.	48	
	Fair		40	
	Bluffer.	W.	48	
	Storms		28	
	Fair		04	
	Hail	W.	04	0. 80
	Snow		28. 93	
	Froft		29. 16	
	Fair	N. W.	30	
			32	
	Froft	S.	10	
	Snow	N. W.	10	
		W.	16	
	Froft	W. by S.	25	
	Fair	N. W.	41	
		S. W.	12	

	Weather.
	Cloudy
	Warm
	Fair
	Fair
	Fair
	Want
	of Rain
	Mifling
	Cloudy
	Fair
	Cold
	Fair
	Mifling
	Froft
	Fair
	Froft
	Dry Sea
	fon
	Froft
	Warmer
	Fog
	Fair
	Cloudy
	Warm
	and
	Fair
	Fair
	Warm
	Cloudy
	Fair
	Cloudy
	Rain
	Cloudy
	Rain
	Fair
	Fair
	Warm
	Spr. Da
	Fair
	Cloudy
	Fair
	Fair
	Hot
	Day.
	The fam

April. 6. 12 9				May. 6. 12. 9				June. 6. 12. 9			
Time.	Wind.	Weather	Winds.	Barom.	Rain.	Time.	Wind.	Weather	Winds.	Barom.	Rain.
1		Cloudy		29. 83				Fair		29. 66	
20		Warm	N. E. o	83				Hot	S. o		
18		Fair		84				Rain		56	
19			N. 1.	82				Rain	S. o	42	
14			N. E. 2	88				Shine	S. 1	29. 0. 44	
02		Fair		87				Rain	S. 1	10	
94		Fair	NE.b.E. 1	83				Fair	S. by W. o	08. 0. 79	
88		Want of Rain	E. 1	82					S. 1	04	
75		Misting	N. o	75				Showers	S. 1	02. 0. 37	
69	o. 13	Cloudy							S. W. 2	18	
69		Fair		68				Cloudy		38	
71		Cold		68					S. 1	58	
70		Fair	N. by E.	68				Cloudy		72	
46		Misting		74				Sultry	S. by W. 1	83	
								Hot		85	
20		Frost		73				Thunder	E. by S.	85	
12	o. 85		E.	71				Rain	E. o	82. 1. 13	
21		Fair		68				Thunder		74	
48		Frost		69				Fog	S. by W.	70. 0. 02	
57		Dry Sea-	E.	67				Fair	S. W. 1	71	
60		son		70				Hot	S. W. 1	72	
01		Frost		71				Fair	S. W. b. W.	70	
11			E.	70							
15		Warmer		71				Cloudy	S. o	56	
15		Fog	W.	65					S. by E. o	50	
14		Fair	W.	64				Fair	S. 1	48	
08		Cloudy		64				Rain	S. o	51	
95		Warm	E. o	61					S. by E. o	60	
90		and	E. by S. 1	61				Fair	S. by W. 1	68. 0. 20	
76		Fair		60					S. o	75	
65		Fair	E. o	60				Fair	S.	75	
64		Warm	E. 1	63					S. o	65	
60		Cloudy	N. by E. 2	64				Cloudy	N. W. 1	60	
47		Fair	N. N. E. 2	65				Fair	N. W. b. W.	55	
35		Cloudy	N. by E.	67					N. W. o	49	
21		Rain		70					W. o	40	
18		Cloudy		72				Fair	S. W. o	34	
45	o. 32	Rain	N. E.	2. 38					S. W. o	28	
35				78. 0. 30				Fair			
59			N. N. E. o	75					E. o	38	o. 20
60	o. 02	Fair	E. by N. o	76				Rain	E. o	45	
48				77				Misty			
40		Fair		77				Fair	E. o		
48		Warm	E. 1	77				Hot	N. b. W. 4	64	
28		Spr. Day		73							
04		Fair	E. o	73				Cloudy	N. 1	78	
04	o. 80			75							o. 01
93		Cloudy	N. o	86				Cloudy	N.	90	
16			N. by W. 1	96				Fair	W. 1	92	
30		Fair		96				Sultry	W. o	94	
32			N. 1	94				Very	W. by S. o	98	
10		Fair	N. o	91				Droughty.	W. by S. 1	30. 00	





*A Register of the Weather, Winds, Height of the Mercury in the Barometer, and  
the last Six Months of the Year One Thousand*

July. 6. 12. 9.				August. 6. 12. 9.				September. 6. 12. 9.				Weather			
	Weather	Winds.	Barom.	Rain.		Weather	Winds.	Barom.	Rain.		Weather	Winds.	Barom.	Rain.	
1	Rain	S S W	29. 75			Cloudy	S. by E. 1	29. 73			Fair	E. by N. 1	29. 98		Cloudy
		S W 1	72				S. by E. 2	72				N. E. 2	30. 00		Misty
	Fair	S W o	70 o. 24			Rain	S. by E. 2	65			Cool		29. 98		Warm
2		S W o	57			Fair	S. by E. o	63 o. 51				NE. b. N. 1	93		Rain
	Same	S W 1	59 o. 22			Showers	W. by S. 1	65			The same	N. E. 2	92		Cloudy
		W b. N. 1	64			Fair		68 o. 40					90		Warm
3	Fair	W o	75			Rain	S. by E. 2	69			Hot Sun	E. by N. o	88		Cloudy
		W o	84			Cloudy	W. 3	71			but	E. 1	89		
						Fair		78 o. 05			Cool Air	E. o	89		Rain
4	Cloudy	S o	85			Rain	S. W. b. S. 1	69			Fair	E. o	84		Fair
	Fair	S W 1	85			Fairer	S. by W. 2	65			Warmer	E. 2	84		Cold
	Hot	S W	85			Rain	W. 1.	60 1. 00			Air		80		Rain
5	Fair	W o	87			Fairer	S. W. 2	50			Fair	E. 1	78		Rain
	Cool	W 1	99				S. W. 1	49 o. 79			Hot	E. o	80		
	Breezes												83		
6	Hot	W. o	29. 95			The same	S. by W. o	4			Mist	E. o	83		Rain
	Dry	W. by S. 1	94				S. 1	4			Fair	S. by E. o	86		Stormy
	Dry		90					45 o. 22			Hot		87		Fairer
	Fair	W. by N. o	86			Cloudy	S. by E. o	41				S. o	82		Rain
7	Hot	W. by S. o	79 o. 12			Rain	E. by N. 1	55			The same	E. 2.	83		Fair
	Rain					Fairer	E. N. E. 1	58 o. 07				E. o	80		Rain
8	Misting	S. W. 1	68				N. 2	50			The same	E. o	73		Cloudy
	Rain	S. W. 2	60			Rain	N. 1	48 4. 0					70		Stormy
	Cloudy	S. S. W. 1	44 o. 32			both	N. 2	35 o. 91			Fair	E. by N. 1	68		Stormy
						Days	W. 2.	37			Cooler	E. by N. 2	65		Cloudy
9	Rain	S. W. 1	42 o. 75				W. by S. 1	42 o. 50					56		Fairer
	Cool	S. W. 1	43			Cloudy	W. 1.	60 o. 39			Cloudy	E. 1.	43		Fair
	Fairer	W. NW. o	47 o. 77			Rain	N. W. 2	65			Rain	S. 2	39		and Pleasant
10	Fair and	W. by N. o	50			Fairer	W. 1	75 o. 07					40 o. 10		
	Cool	W. 1	71												
		N. W. b. W.	83			Fair	W. o.	77			Showers	S. by E. o	35		Frost
11	Rain		85			Pleasant	W. 1	80				W. S. W. 1	40		and Misty
	Warmer	S. W. 1	92 o. 50			Day	W. N. W. 1	82			Fair	S. o	76 o. 07		Frost
12		S. W. b. W.	30. 00			Cloudy	W. by N. o	82			Cloudy	S. by W. 2	77		Fair
						Fair	W. by N. o	82			Rain	S. 2.	49		Fair
	Fair					Mist	N. o.	88				S. 3	38		
13	and					Cloudy	W. by S. 1	89			Fair		63 1. 54		Fair and Warm
	Hot	S. o	29. 98			Rain.	S. by W. 1	82 o. 33			Rain	S. o	67		Cloudy
	Fair	S. o	90			Cloudy	S. W. 2	78				S. 2	50		Warm
14		S. by W. 1	88			Fair	W. 2	83			Fair	S. 4	32		Warm
	Cloudy	S. W. 1	84			Cloudy	W. 2	88			Rain	S. W. 1	45		Cloudy
	Rain	N. b. W. 1	84				S. W. 1	84					30		Warm
15	Cloudy	W. 1	85 o. 48			Little	W. by S. 2	81			Rain	3	30		Misting
	Fair	N. W. o	90			Rain	S. W. b. W. 1	75							
16	Cooler	W. 1	95			Cloudy		70			Fair	S. W. 4	28		Cloudy
	Rain	N. W. b. W.	94			Fair	S. 1	62			Cool	W. by S. 6	32		Fair
	Thunder		92 o. 42			Cloudy		53			Cloudy	2	34		Cold
17	Fair	W. by N. o	91				S. o	48			Fair	W. 1	45		Same
	and	N. o	93								Cool		75		
	Cool	N. N. W. o	93									o			
	Fair	N. W. 1	95								Rain	E. by S. o	55		Cloudy
18	Cloudy	N. 1	98									S. S. W. 2	34 3. 10		Fair
	Rain	N.	93									S. W. 2	10 1. 60		Colder
	Misting	W. N. W. 1	30. 00 o. 62								Fair	W. by N. o	38		Hoar Frost
19											Cloudy	S. W. 1	50		Mist

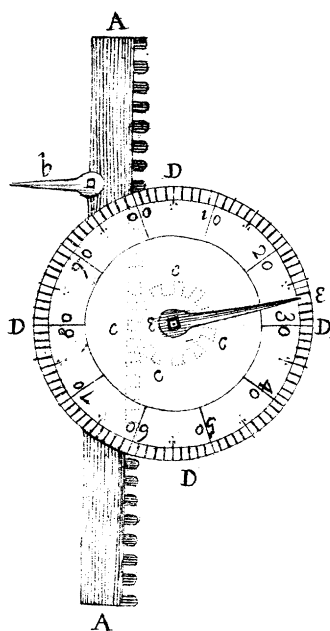
*the Barometer, and Quantity of Rain falling every Day at Upminster, in Essex,  
near One Thousand Six Hundred Ninety Seven.*

6. 12. 9.					October. 7. 12. 9.					November. 8. 12. 9.					December. 8. 12. 9.				
om.	Rain.	Weather.	Winds.	Barom.	Rain.	Weather.	Winds.	Barom.	Rain.	Weather.	Winds.	Barom.	Rain.	Weather.	Winds.	Barom.	Rain.		
98		Cloudy	N. W. o	29. 75		Miffling	S. 1	30. 19		Hard	W. b. N. o	29. 86		Hard	W. b. N. o	29. 86			
99		Misty	S. 1							Frost and	W. b. N. 2	87		Frost and	W. b. N. 2	87			
98		Warm	S. o	76		Misty		15		Fair		89		Fair		89			
93		Rain----	S. o	77	o. 10	Fair	S. S. W. o	11		Same	N. 1	90		Same	N. 1	90			
92		Cloudy	S. by E. o	75		Warm	W. by S. o	11			N. o	94			N. o	94			
90		Warm		75		Pleasant		07				99				99			
88		Cloudy	S. by E. o	51		Fair	W. o	04		Same	N. o	30. 05		Same	N. o	30. 05			
89			S. 1	45		Colder	W. by S. o	02			N. N. E. o	08			N. N. E. o	08			
89		Rain		31	o. 72	Fog		29. 99				06				06			
84		Fair	SWb. W. 1	50		Cloudy	SW. b. S. 2	94		Cloudy	N. W. 1	29. 98		Cloudy	N. W. 1	29. 98			
84		Cold	S. W. 2	52		Cold		88		Snow	N. N. W. 1	89		Snow	N. N. W. 1	89			
80		Rain		28		Day		80		Half Inch		96		Cloudy	N. b. E. 2	30. 00			
78			S. 4	00	o. 12	Rain----	S. W. 2	73	o. 50	Cloudy	N. b. E. 2	30. 00		Fair	N. N. E. 1	06			
80		Rain	S. by W. 2	28. 98		Fair	W. b. S. 2	75		Fair	N. N. E. 1	06				09			
83				29. 13	o. 57			81				09							
83		Rain	S. 1	16		Rain				Snow	NW. b. N. 3	29. 98		Snow	NW. b. N. 3	29. 98			
86		Stormy	E. & W. S. 2	28. 97		Fair	W. by N. 1	87		Fair	NW. b. N. 1	99		Fair	NW. b. N. 1	99			
87		Fairer	S. & c. 6	29. 28	1. 36	Cold		30. 00		Sn. 1 Inch		30. 00		Sn. 1 Inch		30. 00			
87		Rain	S. by E. 1	08		Cold		20. 02		Snow 6	N. W. o	29. 92		Snow 6	N. W. o	29. 92			
83			N. 1	13		Cloudy	E. S. E. o	91		Snow 6		11		Snow 6		11			
80		Fair	W. 1	58	2. 52	Day		92		Inches		68		Inches		68			
73		Rain	S. 2.	66		Frost	E. by S. o	96		Fair	E. o	84		Fair	E. o	84			
70		Cloudy	S. W. 4	64	o. 10		E. S. E. o	99				87				87			
70		Stormy	5	44		Fair						85				85			
68		Stormy	S. W. 8	39		Hard		30. 10		Snow		64		Snow		64			
66		Cloudy	W. S. W. 4	51		Frost	E. o	10		Sleet	S. b. E. 1	53		Sleet	S. b. E. 1	53			
56		Fairer	2	66		Fair		10		Thaw		42		Thaw		42			
43		Fair	SWb. W. o	88		Cloudy	N. E. o	08		Frost	E. N. E. o	55		Frost	E. N. E. o	55			
39		and	W. by S. o	30. 00		Frost				Thaw	E. o	57	3. 62	Thaw	E. o	57	3. 62		
40	o. 10	Pleasant		15		Fair		04		Snow	2	46		Snow	2	46			
38		Frost	W. by S. o	20		Rain	W. by S. 1	29. 73		Rain	E. S. E. 2	09	2. 76	Rain	E. S. E. 2	09	2. 76		
40		and	S. W. o	21		Fairer	N. 2			Warm	S. b. W. 1	10		Warm	S. b. W. 1	10			
60	1. 59	Misty		18				72	o. 78	Thaw		24	o. 90	Thaw		24	o. 90		
76	o. 07	Frost	SWb. W. o	17		Rain	N. by W. 2	70	o. 02	Thaw	S. by E. 2	14		Thaw	S. by E. 2	14			
77		Fair				Fair	N. 1	68			S. 2	04			S. 2	04			
70						Frost		65	o. 15	Rain		11	o. 42	Rain		11	o. 42		
49		Fair				Rain----	N. 1	63		Fair	S. W. 3	33		Fair	S. W. 3	33			
38			W. 1	20		Cloudy		62	o. 09	Warm	W. S. W. 3	50		Warm	W. S. W. 3	50			
63	1. 54	Fair	W. by S. o	18		Frost		56		Pleasant	S. W. 1	61		Pleasant	S. W. 1	61			
67		and	W. N. W. o	18		Snow	N. E. 2	40	o. 82	Cloudy	S. W. 1	68		Cloudy	S. W. 1	68			
50		Warm		16		Sleet	N. 1	38		Warm	W. S. W. 1	67		Warm	W. S. W. 1	67			
32		Cloudy	W. by S. o	12		All Day		48	o. 50	Day	W. S. W. o	65		Day	W. S. W. o	65			
46		Warm	N. W. o	12		Frost	W. b. S. o	64		Misty	E. 1	64		Misty	E. 1	64			
30		Miffling		10						Warm	E. by N. o	64		Warm	E. by N. o	64			
30										Day		65		Day		65			
28		Cloudy	W. o	06		Hard				Frost				Frost					
32		Fair	N. N. W. 2	08	o. 14	Frost	Nb by W. 2			Fair	E. by N. 1	58		Frost	E. by N. 1	58			
34		Cold	N. by W.	20		Fair		30. 04				59		Fair		59			
45		Same	N. by W. o	27			N. b. W. 2	03		Frost		57		Frost		57			
74			N. by E. 1	30		The same	N. b. W. 3	03		Cloudy	E. o	56		Cloudy	E. o	56			
55		Cloudy	N. by E. o	32				00		Fairer		62		Fairer		62			
34	3. 10	Colder	E. by S. o	27			N. N. W. 1	29. 92		Mist		64		Mist		64			
10	1. 60	Hoar Fr.	S. W. o	22		The same	N. N. W. o	91				72				72			
38		Mist	N. by E. o	28		Snow	S. S. W. 2	26		Cloudy		70		Cloudy		70			
50						Sleet				Warm	E. 1	68		Warm	E. 1	68			

11		S.W. 1	93	50	Day	W.N.W. 1	82		Shower	W.S.W. 1	40		59	Misty
12		S.W.b.W	30.	00	Cloudy	W.by N.o	82		Fair	S. o	76	o.	07	Frost
					Fair	W.by N.o	82		Cloudy	S.by W.2	77			Fair
13	Fair and Hot	S. o	29.	98	Mist	N. o	83		Rain	S. 2.	49			Fair
					Cloudy	W. by S.1	89		Fair	S. 3	38			Fair
14	Fair	S. o	90		Rain.	S. by W.1	82	o. 33	Rain	S. o	67			Fair and Warm
		S.by W.1	88		Cloudy	S. W. 2	78		Fair	S. 2	50			Cloudy
	Cloudy	S. W. 1	84		Fair	W. 2	83		Rain	S. 4	32			Warm
15	Rain	N.b.W.1	84		Cloudy	W. 2	88		Fair	S. W. 1	46			Cloudy
	Cloudy	W. 1	85	o. 48	Little	S. W. 1	84		Rain	3	30			Warming
	Fair	N. W. o	90		Rain	W.by S.2	81							Misting
						S.W.b.W.1	75							
16	Cooler	W. 1	95		Cloudy	S. 1	70		Fair	S. W. 4	28			Cloudy
	Rain	N.M.b.W	94		Fair	S. o	62		Cool	W.by S.6	32			Fair
	Thunder		92	o. 42	Cloudy		53		Cloudy	2	34			Cold
17	Fair and Cool	W.by N.o	91				48		Fair	W. 1	45			Same
		N. o	93						Cool	o	74			
		N.N.W.o	93											
18	Fair	N. W. 1	95						Rain	E. by S.o	55			Cloudy
	Cloudy	N. 1	98							S. S.W. 2	34	3.	10	Fair
	Rain	N. 1	98							S. W. 2	10	1.	60	Colder
19	Misting	N. 1	93						Fair	W.by N.o	38			Hoar Fr
	Cloudy	W.N.W.1	30.	00	o. 62				Cloudy	S. W. 1	50			Mist
			30						Rain	S. 1	22	o.	56	Fair
20	Showry	W.by S.1	29.	88	Fair	S.by W.2			Rain	S. W. 3	05			Fog Fro
					Great Storm				Fair	W.S.W.3	02			Cold
					Thun. Rain		60	1. 88		3	21	o.	14	Rain
21	Rain	W.by W.1	75		Cloudy	S. 1	60		Cloudy	W.S.W.3	35			Cloudy
	Fair	W.by N.1	71		Rain	S. 1	60		Rain	S. 1	31			Fair
	Misting	W. 1	60		Cloudy		61	o. 13	Cold	S. W. 1	28.	98		
22	Misty	S.W.b.W	48		Cloudy	W.by S.o	74		Fair	S. W. 2	29.	24		Fog
	Rain	S.W.b.W	48		Misting	W. 1.	84		Shower					
	Fair	S.W.b.W	50	o. 45	Fair	W.	90							
23	Fair	S.by W.o	50		Fair	W.by S.o	92		Fair	S. W. 1	51			Cloudy
	Cool	S. 1	48		Cloudy	W.by S.2	88		Rain	W.N.W.	74			Fair
	Day	S. o	48		Fair	S. W. 2.	84			S. W. o	87			Cloudy
24	Fair Then Great Sh. with Hail	S. 1	50		Sultry	S. W. 1	82		Fair	N.	87			and Warm
		W. & N. & S.	60	1. 02	Cloudy	S.W.b.S.1	70		Rain	E. o	66	o.	08	Same
25	Fair Pleasant	W. o	65		Fair	S.W.b.S.2	67		Cloudy	S. E. 2.	38	o.	30	
	Day	N. W. 1	72			S.by W.2	54		Misting					
		W.S.W.o	77											
26	Fair	W.by S.o	76		Rain	S. 3	29		Fair	N. E. o	38			Cloudy
	Cloudy		76		Fair	W.by S.3	31		Rain	E. 1	40			Warm
	Misting		69				54	o. 53	Cold		39	o.	24	Rain
27	Cloudy and Cool	S.by W.o	63		Fair	S. W. 1	81		Fair	E. o	27			Fair
		SE. Sb.W	60			W.by S.2	93		Cloudy	E. by N.1	25			Rain
		E. by N.1	60				98		Rain		30	o.	84	Storm
28	The fame	N. N. E.2	58		Fair	S. S.W.o	94		Fair	N. E. 1	38			Frost
		E. by N.2	62			S. S.W.2	94		Cold	N. by E.3	56			Fair
			69				90		Day					Rain
29	Fair	N. 1	70		Cloudy	S. W. o	95		Hoar	N.by W.1	65			Warm
	Cool	N. 2	76		Sultry	E. o	99		Frost	N.by W.1	70			Small
	Day		90		Very Cl.		30.	03	Fair	N.by W.o	78			Show
30	The fame	N.by W.o	77		Fair	N. E. o	03		Ice		80			Cloudy
		W.by N.1	30.	00					Fair		82			
			00						Cloudy		83	o.	22	Fair
31	Cloudy Warmer	S. by E.1	29.	50	Fair and Air sharp									Fair and Cool
	Rain	S. S. E.1	86											
		S. 1	79	6. 19				01 13. 98					10. 47	

Place this between Pag. 48, 49.





II. *A Letter of Mr. W. Derham, Rector of Upminster, dated Jan. 13. 1697. to Dr. Sloane, about a Contrivance to measure the Height of the Mercury in the Barometer, by a Circle on one of the Weather Plates, with a Register of the Weather, &c. for the Year 1697.*

**T**O my former Observations about the Barometer, give me leave to subjoin a Contrivance for measuring the Height of the *Mercury*, which hath lately occurred to my Thoughts, and which in some Cases is more commodious, than that way with a crooked Tube (I spake of.) This way is by a Circle on one of the Weather-plates, of any convenient Diameter. Divide this into 100 Parts (which are to answer the 100 Parts of an Inch.) The Index which pointeth to these Parts, must be driven round by a small wheel, like the Dial-wheel of a Watch. This Wheel must be driven round by a strait Piece, like a small Ruler, with Teeth on one Edge thereof; every Inch whereof must contain just the same Number of Teeth as are in the Dial-wheel before mentioned; so as that by the thrusting up and down this toothed Ruler, you may at every Inch turn round the Index once. About the middle of this toothed Ruler, a fine Finger must be fixed to point exactly to the Height of the *Mercury*. And consequently by raising or depressing this Finger to the Height of the *Mercury*, you very exactly see, on the Circle, the Parts of an Inch, which the *Mercury* riseth or falleth in the Tube, by reason the Circumference of the Circle is Three or more Inches about.

This Description in Words may perhaps be sufficient, but to prevent Obscurity, I have added a Figure.

Having proposed the nicest ways I can think of, for measuring the Variation of the *Mercury* on different Heights, there is one Difficulty (partly suggested to me by a correspondent Friend) which may be resolved hereby, which I have not yet had Opportunity to make trial of, and do therefore recommend it to others. And that is, *Whether the Mercury bath exactly the same Variation, on one and the same Height, at two different Times: viz. When the Mercury is high, as in fair Weather; or low, as in foul:* I am inclined to think, That as the Atmosphere is heavier or lighter, so its pressure being more or less on the same Height, that consequently the *Mercury* riseth or falleth sometimes more, sometimes less on one and the same Height. As for Instance, If the *Mercury* sinketh 1 of an Inch at the Height of 82 Feet, when the *Mercury* standeth at 30 Inches in the Barometer, I Quære, Whether it will sink so much when the Barometer is at 29 Inches?

*Fig. 1.* representeth the Circle and toothed Ruler, without the Interposition of the Weather-plate; that the Contrivance may be the better seen.

*A. A.* The Ruler with Teeth, made to slide up and down.

*b.* The little Finger that pointeth to the *Mercury's* Height (which is placed higher on the toothed Rule than it ought to be, that it may be seen.)

*c. c. c. c.* The Index or Dial-wheel.

*D. D. D. D.* The Circle.

*e. e.* The Index.

*The following Table explained, with Remarks upon it.*

1. **T**HE Four Columns in each Month are easy : The First giveth the State of the Weather in the Morning, at Noon, and at Night. The Second the Bearing of the Winds. The Third, the Height of the *Mercury* in the Barometer, in Inches and Centesimals. The last the Quantity of Rain that fell every Day through a Tunnel of Twelve Inches Diameter, in Pounds and Centesimals of a Pound : At the Bottom of which Column is the Quantity of all the Rain that fell in the Month.

2. Where only one sort of Weather is noted upon one Day, that was the Weather of all the Day ; especially if the Barometer be noted three times. The same observe also in the Column of Winds. Thus *Jan. 2.* it was a Misty Day, Wind S.

3. The uppermost Observation of each Day is the Morning Observation ; the middlemost at Noon ; the lowermost at Night. Or if a Defect be in any of those Three Places, no Observation was made at that time.

If you meet with [Rain] noted on the Line that parts every Day, it signifies rain fell in the Night.

4. The Time of observing at Night, was at Nine of the Clock all the Year. But the Morning Observations were all *January* at 8 of the Clock ; all *February*, and to *March 20.* at 7 of the Clock ; thence to the End of *September* at Six of the Clock ; all *October* at Seven ; all *November* and *December* at Eight : And this is the meaning of the Figures that follow the Name of every Month.

5. The Strength of the Winds is noted in the Column

H 2

of

of Winds, from *March 25*. The Reason I did it not before, was, because I did not think of it till Mr. *Townley* suggested it to me, *Note*, A Cypher signifies a Calm; 1, 2, 3, &c. denotes the Strength of the Wind; wherefore 5, or 6 is a little Storm; 7, or 8 a great Storm.

6. Where the Weather, Winds, or Rain are noted only in the Morning and at Night, it signifies the Weather, &c. all the Morning and Afternoon; especially if the Barometer was observed at Noon.

7. The Defect of Observations from *April 26*. to *May 16*. was occasioned by my Absence in a Journey: Notwithstanding which, I took Care to have the Rain that fell, measured; tho' not on the Days it fell.

8. Forasmuch as the Quantity of Snow falling can't be well observed by the Tunnel, I have therefore in the Table noted the Depth of it on the Ground, as on *Dec. 4*, &c.

9. The whole Quantity of Rain that fell through my Tunnel last Year, was 77.60 fb. which is less than fell from the Beginning of *March* (at which time I began my Rain-Observations) till the End of *December*, 1696. In which Ten Months there fell here, at *Upminster*, almost 115 fb. and at *Townley* in *Lancashire* (according to Mr. *Townley's* Observations) above 172 fb. and in the whole Year at *Townley* 203.75 fb.

10. My Rain-Observations I make with a Tunnel of Twelve Inches Diameter (as I have said) the Rain I measure with a Cylindrical Glass. But for a fuller Description, I refer to Mr. *Townley's* Account of his Method, in one of the Transactions of a former Year.